CIMS- It is the integration of the total manufacture, enterprise through the use of integrated systems and data communications coupled with new managerial philosophies that improve organisational and personal efficiency.

- CIM basically involves the integration of all the functions of an enterprice.

## Advantages of CIM: -

- 1) Improves operational control through
  - reduction in the no. of uncontrollable variables.
     reducing dependence on human communication.
- 2) Improves the short-run responsiveness consisting of
  - engineering changes - mje downtime or unavailability
    - Operator unavailability
    - Culting-tool failure
  - Late material delivery
- Reduces inventory by
  - reducing lot sizes improving inventory turnovers.
- increases m/c utilization by
  - eliminating or reducing m/c setup.
  - utilising automated features to replace manual intervention to the extent possible
- Eng. design costs can be reduced.
  - Overall lead times Productivity of the monufactioning operation can be income

8) Work-in-procen can be reduced. Types of manufacturing systems (1) Special manufacturing system
(2) Manufacturing Cell
(3) Flerible manufacturing system (FMS) Special
System

1500

System

Flexible

manufacturing

System

Manufacturing

Cell - Part variety -> The special manufacturing system is - le least flevible parts (2 to 8) in the same manufacturing family. \* Annual production rate per part -> (1500 - 15,000) pieces. Manufacturing cell is the most flexible, but generally has the lowest production rate of the three types. He so of different parts manufactured in the cell might be inbetween 40 2 800 and annual production levels for these parts would be between 15 2 500. The FMS covers a wide middle territory within the midvolume, mid variety production range. He no of different parts manufactured (4 to 100) Production votes per part (40 2 2000) per guar.